ABSTRAK

Temu kembali citra berbasis konten (TKCBK) mencari gambar query pada basis data gambar skala besar gambar berbasis konten visual seperti warna, tekstur, dan bentuk. Tujuan dari penelitian ini adalah meningkatkan akurasi sistem TKCBK yang semula hanya menggunakan fitur forward diagonal mean, dengan menggunakan fitur tambahan yang disebut fitur gray level co-occurrence matrix (GLCM). Performa temu kembali dari proses temu kembali yang difasilitasi oleh R-Tree dalam rangka untuk mempercepat proses pencarian, diukur dengan parameter precision dan recall. Eksperimen menunjukkan bahwa ada peningkatan pada precision sebesar 11.8% (dari 67% ke 78.8%) dan recall sebesar 1.18% (dari 6.7% ke 7.88%). (DS)*

Kata Kunci : TKCBK, Forward Diagonal Mean, GLCM, R*-Tree

Content based image retrieval (CBIR) search query images from large scale image database, based on their visual content such as color, texture, and shape. The objective of this research is to improve accuracy of the CBIR system, originally employing only forward diagonal mean features, by using additional features called gray level co-occurrence matrix (GLCM). The retrieval performance of retrieval process facilitated by R-Tree in order to speed up the searching process, is measured by precision and recall parameter. The experiments show that there is improvement in precision by 11.8% (from 67% to 78.8%) and recall by 1.18% (from 6.7% to 7.88%). (DS)*

Keyword : CBIR, Forward Diagonal Mean, GLCM, R*-Tree